

Abstract:

This application describes a method and apparatus for precisely pinpointing and locating moving or stationary objects, with application to the real time monitoring of the precise position of airplanes and other vehicles on runways and other portions of airports. The invention is also capable of locating and monitoring equipment for servicing aircraft and the efficient allocation and coordination of the equipment. Additional capabilities of the invention include remote disabling of location sensing for particular objects, automatic generation of alarm conditions when objects are in danger of collision, and automatic broadcast of alarm conditions to occupants of located vehicles or aircraft. Additional applications include location and pinpointing of balls, game equipment, players, and officials in sports; prisoners in prisons; children in childcare facilities; pets in and around homes, apartments or any living areas; animals in farms or zoological gardens (zoo); and more generally subjects in any area with predetermined boundaries. The method employs a continuous wave or pulse transmitter in the object to be located, and requires no high-speed or precision timing circuitry. By incorporating a receiver also in the object, control of the object is also possible.

Related U S Patents

6,141,060	Honey et al.,	Oct, 2000	348/578
6,154,250	Honey et al.	Nov 2000	348/157
6,133,946	Cavallaro et al.,	Oct 2000	348/135
5,912,700	Honey et al.,	Jun 1999	348/157
5,917,553	Honey et al.,	Jun 1999	348/578
6,148,262	Fry	Nov 2000	701/213
6,163,755	Peer et al	Dec 2000	701/301
6,163,278	Janman	Dec 2000	340/988
6,161,434	Fink et. al.	Dec 2000	73/587
6,161,018	Reed et al.	Dec 2000	455/456
6,163,035	Shibayama et al.	Dec 2000	250/559.33
6,157,230	O'Toole et al.	Dec 2000	327/156
6,163,504	Komninos et al.	Dec 2000	367/135
6,113,504	Kuesters	Sept 2000	473/353
6,042,487	Schrimmer et al	March 2000	473/353
5,564,698	Honey et al	Oct 1996	473/570
5,480,154	Barnhill et al	Jan 1996	473/199

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